

9th Class 2021

Physics	Group-II	Paper-I
Time: 15 Minutes	(Objective Type)	Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1-1- The number of perpendicular components of a force are:
- (a) 1 (b) 2 ✓
(c) 4 (d) 5
- 2- Which material has large specific heat?
- (a) Copper (b) Ice
(c) Water ✓ (d) Mercury
- 3- Rate of doing work is called:
- (a) Energy (b) Torque
(c) Power ✓ (d) Momentum
- 4- Which of the following is a vector quantity?
- (a) Speed (b) Distance
(c) Power (d) Displacement ✓
- 5- In which state of matter molecules do not leave their position?
- (a) Solid ✓ (b) Liquid
(c) Gas (d) Plasma
- 6- Which scientist observed that it is easy to move or to stop light objects than heavier ones?
- (a) Isaac Newton (b) Galileo ✓
(c) Einstein (d) Alberuni

- 7- Inertia depends upon:
- (a) Force
 - (b) Net force
 - (c) Mass ✓
 - (d) Velocity
- 8- The speed of geostationary satellite with respect to Earth is:
- (a) Zero ✓
 - (b) 10 km s^{-1}
 - (c) 10 km h^{-1}
 - (d) 8 km s^{-1}
- 9- Earth's gravitational force of attraction vanishes at:
- (a) 6,400 Km
 - (b) Infinity ✓
 - (c) 42,300 Km
 - (d) 1,000 Km
- 10- Land and sea breezes are the result of:
- (a) Conduction
 - (b) Convection ✓
 - (c) Radiation
 - (d) Absorption
- 11- An interval of $200 \mu\text{s}$ is equivalent to:
- (a) 0.2 S
 - (b) 0.02 S
 - (c) $2 \times 10^{-4} \text{ S}$ ✓
 - (d) $2 \times 10^{-6} \text{ S}$
- 12- The density of ice is:
- (a) $1,000 \text{ kg m}^{-3}$
 - (b) 920 kg m^{-3} ✓
 - (c) $2,700 \text{ kg m}^{-3}$
 - (d) 800 kg m^{-3}